

FIG.2: Communities Involved

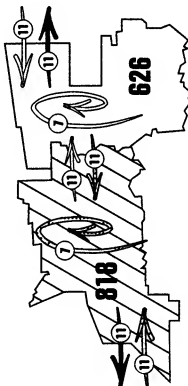





FIG.2A: Dialing Patterns

Dialing Options	
	7 Digit Dialing Within 818 123-4567
	or
	Within 626 123-4567
	11 Digit Dialing Into Area 1+818+123-4567 1+626+123-4567
	Out of Area 1+XXX+123-4567
	Between 818/626 1+818+123-4567 1+626+123-4567

Implementing a split greatly impacts dialing for calls both within and into the original NPA. This method of relief is expensive for business and disruptive to all customers, both within and outside of the affected area.

The Standard Overlay Method

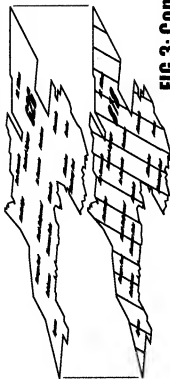


FIG.3: Communities Involved

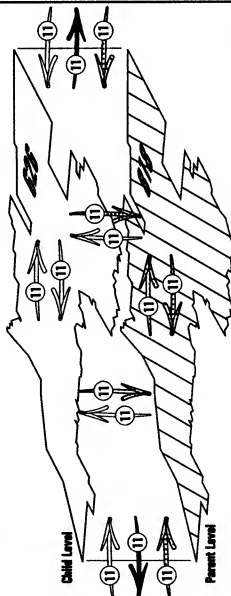


FIG.3A: Dialing Patterns

Dialing Options
7 Digit Dialing
Thought to be impractical for this Overlay Method
Mandatory 11 Digit Dialing Into Area
1+818+123-4567
or 1+828+123-4567
Out of Area
1+NXX+123-4567
Within 818/828 Area
1+818+123-4567
or 1+828+123-4567

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With abbreviated dialing abandoned, the overlay levels are not unified by a distinctive dialing plan. The concern that this mix of area codes will cause hardship and confusion for citizens has prevented overlays from becoming widely accepted.

The Unified Dialing Plan for Overlays

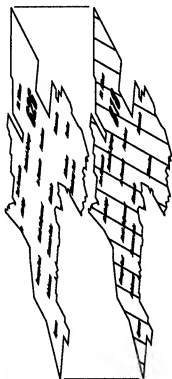


FIG. 4: Communities Involved

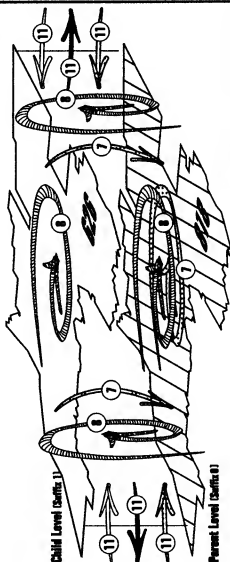
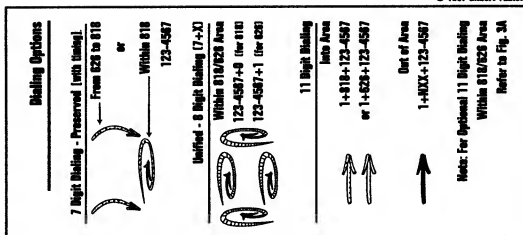


FIG. 4A: Dialing Patterns

This overlay method provides for long term relief AND maintains the integrity of the original dialing area by:

- 1) Preserving established 7 digit dialing to all parent level numbers from any level within the overlay area.
- 2) Unifying all levels of the overlay with a simple 8 digit (7+suffix) dialing system.
- 3) Allowing for optional (not mandatory) 11 digit dialing between levels of the overlay.



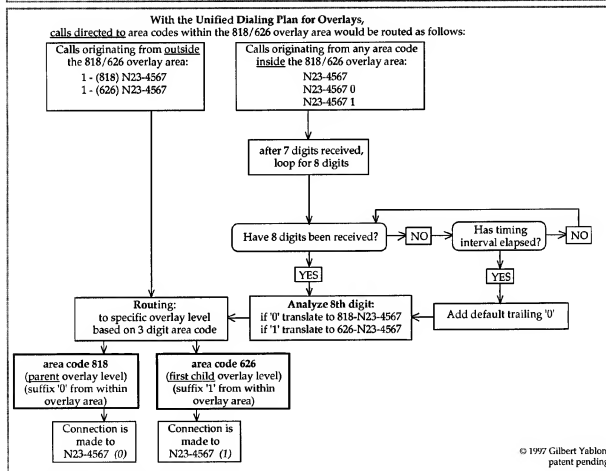
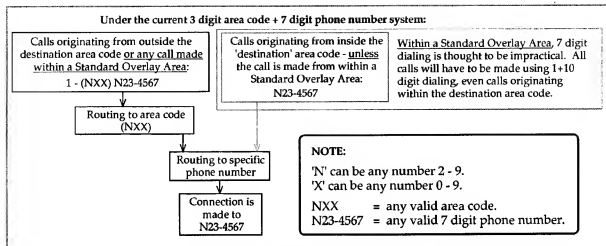


FIG. 5

Note: (NAA) - (N J J) are distinct 3 digit area codes.
 N..... = any number 2-9
 A,B,C,D,E,F,G,H,I,J = any numbers 0-9

Here is how the new numbers would be allocated:

(NAA) N23-4567 current number now.

(NAA) N23-4567 0 current number under my proposed plan.
 note: the trailing '0' would not need to be entered by the user. Phone company equipment will automatically add the '0' after a fixed time (3 - 7 seconds) to complete the call if only 7 digits have been entered by the user. This feature makes the plan completely non-disruptive.

(NBB) N23-4567 1 first generation of new numbers under my proposed plan.

and if more numbers
 are later needed...

(NCC) N23-4567 2
 (NDD) N23-4567 3
 (NEE) N23-4567 4
 (NFF) N23-4567 5
 (NGG) N23-4567 6
 (NHH) N23-4567 7
 (N I I) N23-4567 8
 (N J J) N23-4567 9

note: the trailing '1 - 9' would need to be entered by the user. Since these are new numbers, they will always be known as 8 digit numbers from the time they are first issued, and will be memorized, listed in directories and dialed as such.

Since these area codes would be grouped in a single overlay area, dialing within the overlay area to any of these area codes could be accomplished simply by dialing the 7 digit number + the appropriate suffix under the Unified Dialing Plan for Overlays.

 At some point far into the future even more numbers might be needed. The same non-disruptive system could be used to expand again at that time.

(NAA) N23-4567 00 current number far into the future.

note: neither of these trailing '0's would need to be entered. If only 7 digits were entered, the phone company would automatically add the '0' or '00' after the fixed time. Thus, the original 7 digit number could still be reached by only dialing the original 7 digits.

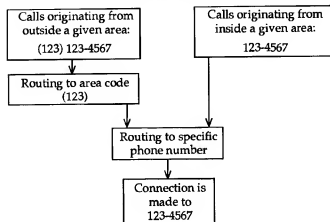
(NBB) N23-4567 10
 (NCC) N23-4567 20
 (NDD) N23-4567 30
 (NEE) N23-4567 40
 (NFF) N23-4567 50
 (NGG) N23-4567 60
 (NHH) N23-4567 70
 (N I I) N23-4567 80
 (N J J) N23-4567 90

first generation of new numbers far into the future.
 note: the new trailing '0' would not need to be dialed. Phone company equipment would automatically add the trailing '0' just as it would for the original 7 digit numbers. So, no directories or habits would need updating even for these numbers.

(NAA) N23-4567 01 (02 03 04 05 06 07 08 09) second generation of new numbers.
 (NBB) N23-4567 11 (12 13 14 15 16 17 18 19)
 (NCC) N23-4567 21 (22 23 24 25 26 27 28 29)
 (NDD) N23-4567 31 (32 33 34 35 36 37 38 39)
 (NEE) N23-4567 41 (42 43 44 45 46 47 48 49)
 (NFF) N23-4567 51 (52 53 54 55 56 57 58 59)
 (NGG) N23-4567 61 (62 63 64 65 66 67 68 69)
 (NHH) N23-4567 71 (72 73 74 75 76 77 78 79)
 (N I I) N23-4567 81 (82 83 84 85 86 87 88 89)
 (N J J) N23-4567 91 (92 93 94 95 96 97 98 99)

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 patent pending

Under the current 3 digit area code + 7 digit phone number system:



Under my proposed 3 digit area code +pseudo 8 digit/overlay phone number system:

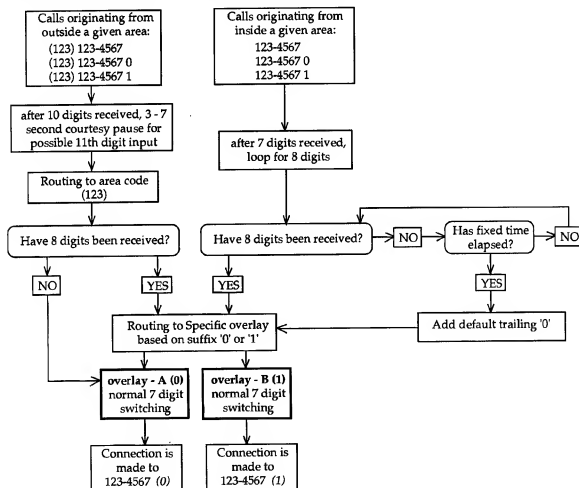


FIG. 7

Here is how the new numbers would be allocated:

(123) 123-4567 current number now.

(123) 123-4567 0 current number under my proposed plan.

note: the trailing '0' would not need to be entered by the user.

Phone company equipment will automatically add the '0' after a fixed time (3 - 7 seconds) to complete the call if only 7 digits have been entered by the user.

(123) 123-4567 1 first generation of new numbers under my proposed plan.

and if more numbers
are later needed...

(123) 123-4567 2

(123) 123-4567 3

(123) 123-4567 4

(123) 123-4567 5

(123) 123-4567 6

(123) 123-4567 7

(123) 123-4567 8

(123) 123-4567 9

note: the trailing '1 - 9' would need to be entered by the user. Since these are new numbers, they will always be known as 8 digit numbers from the time they are first issued, and will be memorized, listed in directories and dialed as such.

At some point far into the future even more numbers might be needed. The same non-disruptive system could be used to expand again at that time.

(123) 123-4567 00 current number far into the future.

note: neither of these trailing '0's would need to be entered. If only 7 digits were entered, the phone company would automatically add the '0' or '00' after the fixed time. Thus, the original 7 digit number could still be reached by only dialing the original 7 digits.

(123) 123-4567 10 first generation of new numbers far into the future.

note: the new trailing '0' would not need to be dialed.

Phone company equipment would automatically add the trailing '0' just as it would for the original 7 digit numbers. So, no directories or habits would need updating even for these numbers.

(123) 123-4567 20

(123) 123-4567 30

(123) 123-4567 40

(123) 123-4567 50

(123) 123-4567 60

(123) 123-4567 70

(123) 123-4567 80

(123) 123-4567 90

(123) 123-4567 11 (12 13 14 15 16 17 18 19) second generation of new numbers.

(123) 123-4567 21 (22 23 24 25 26 27 28 29)

(123) 123-4567 31 (32 33 34 35 36 37 38 39)

(123) 123-4567 41 (42 43 44 45 46 47 48 49)

(123) 123-4567 51 (52 53 54 55 56 57 58 59)

(123) 123-4567 61 (62 63 64 65 66 67 68 69)

(123) 123-4567 71 (72 73 74 75 76 77 78 79)

(123) 123-4567 81 (82 83 84 85 86 87 88 89)

(123) 123-4567 91 (92 93 94 95 96 97 98 99)

FIG. 8

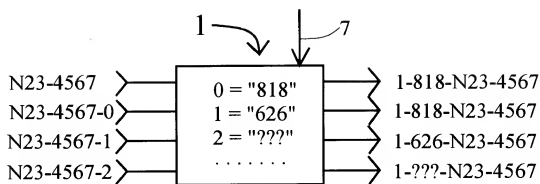


FIG. 9a

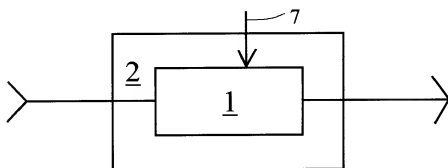


FIG. 9b

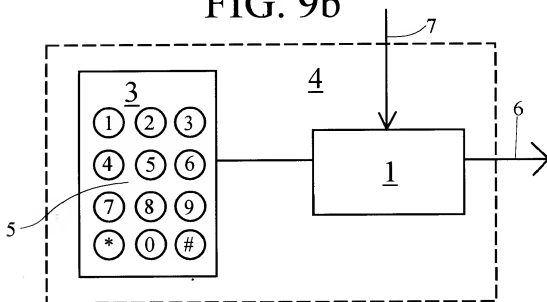


FIG. 9c

UDPO LOGIC FLOW DIAGRAM WITH INTERACTIVE or NON-INTERACTIVE ANNOUNCEMENT

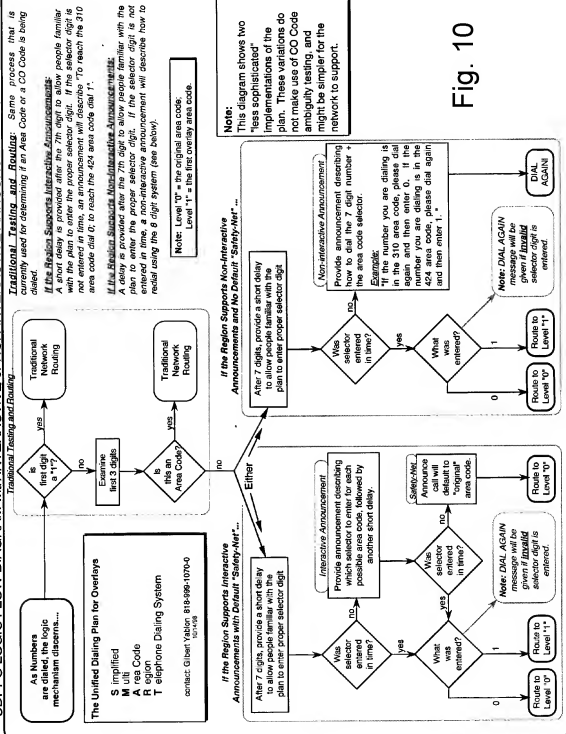
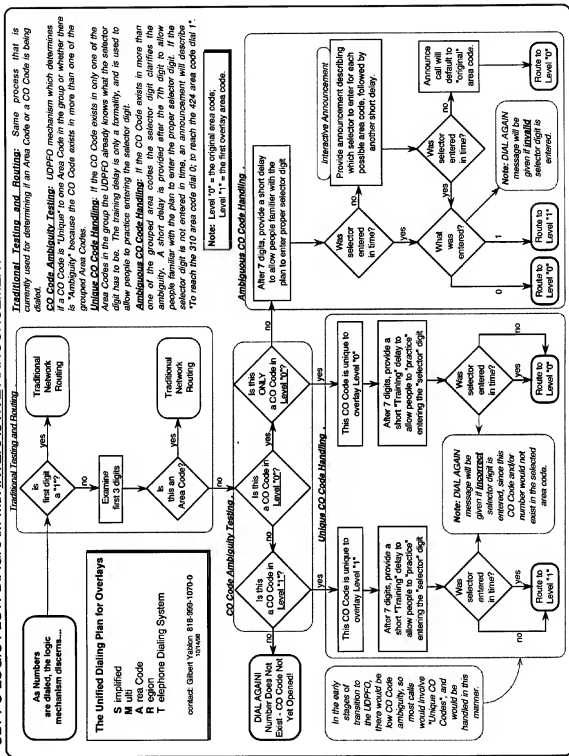


Fig. 11

UDPO LOGIC FLOW DIAGRAM with INTERACTIVE ANNOUNCEMENT



Block Diagram of CPE Version of the Invention.

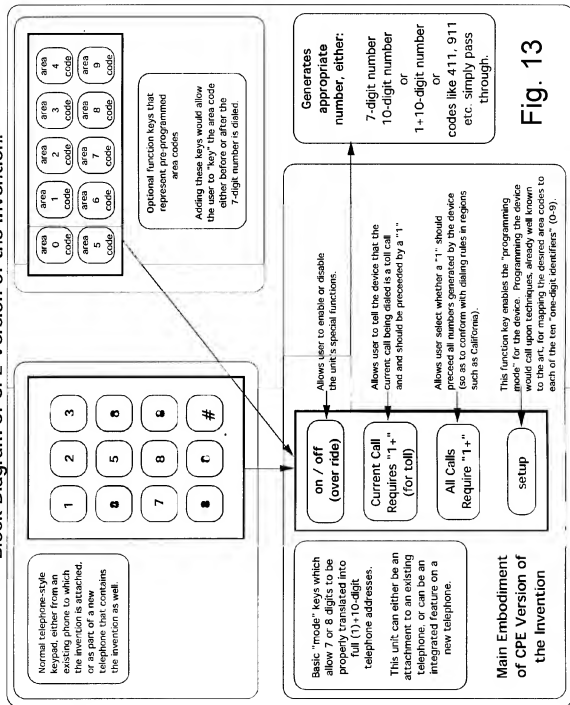


Fig. 13

Traditional Testing and Routing / 5-digit area code adaptation

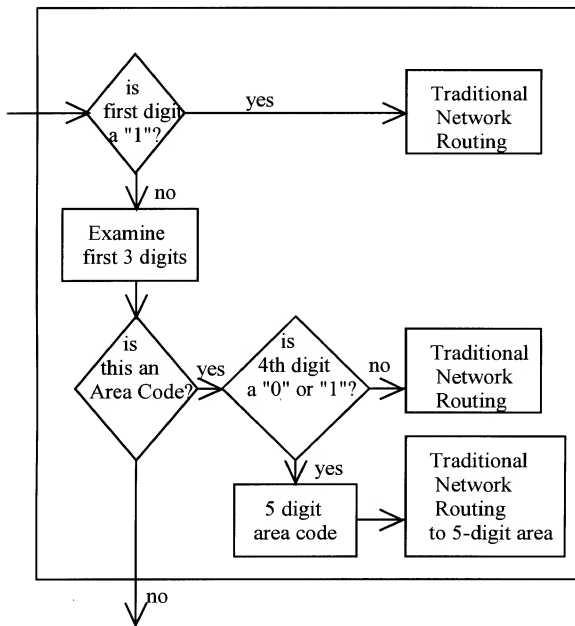


FIG. 14